# PATENT COOPERATION TREATY PCT

## INTERNATIONALSEARCHREPORT

(PCT Article 18 and Rules 43 and 44)



Applicant's or agent's file reference R05165PCT	FOR FURTHER ACTION	as well	see Form PCT/ISA/220 l as, where applicable, item 5 below.					
International application No.	International filing date(day/mo	nth/year)	(Earliest) Priority Date (day/month/year)					
PCT/JP2005/018397	28.09.2005	;	30.09.2004					
Applicant								
RICOH COMPANY, LTD.								
This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.  This international search report consists of a total of 3 sheets.								
It is also accompanied by a copy of each prior art document cited in this report.								
<ol> <li>Basis of the report</li> <li>a. With regard to the language, the international search was carried out on the basis of:</li> <li>the international application in the language in which it was filed</li> </ol>								
a translation of the international application into , which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b))								
b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.								
2. Certain claims were found unsearchable (see Box No. II)								
3. Unity of invention is lacking (see Box No. III)								
4. With regard to the title,								
the text is approved as submitted by the applicant								
the text has been established by this Authority to read as follows:								
•								
5 mg								
5. With regard to the abstract,  the text is approved as submi	tted by the applicant							
		his Authorit	vas it appears in Box No. IV. The applicant					
may, within one month from the date of mailing of this international search report, submit comments to this Authority								
6. With regard to the drawings,  a. the figure of the drawings to be published with the abstract is Figure No.								
a. the figure of the drawings to be pr	ublished with the abstract is Fi	gure No						
as suggested by the app								
as selected by this Authority, because the applicant failed to suggest a figure								
as selected by this Authority, because this figure better characterizes the invention  b none of the figures is to be published with the abstract								
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# INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/018397

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#### INTERNATIONALSEARCHREPORT

International application No. PCT/JP2005/018397

#### CLASSIFICATION OF SUBJECT MATTER

Int.Cl. HO2M3/155 (2006.01)

According to International Patent Classification (IPC) or to both national classification and IPC

## FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl. H02M3/155 (2006.01)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Published examined utility model applications of Japan 1922-1996
Published unexamined utility model applications of Japan 1971-2005
Registered utility model specifications of Japan 1996-2005
Published registered utility model applications of Japan 1994-2005

Published registered utility model applications of Japan 1994-2005							
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)							
C. DOCUMENTS CONSIDERED TO BE RELEVANT							
Category*	Citation of document, with indication, where ap	propriate, of the relevant passages	Relevant to claim No.				
Y	JP 2002-262554 A (LINEAR T	ECHNOLOGY CORP)	1				
A	13.09.2002, Fig.2 & US 200		2-12				
	& GB 2376091 A & GB 240788						
	& TW 550444 B						
Y	WO 2003/058804 A2 (KONINKLIJKE PHILIPS 1						
A							
**	& JP 2005-514896 A & <u>US 2005/0116748</u> A1						
	& DE 10200917 A & EP 1472781 A						
	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2						
Y	JP 2002-543728 A (KC	1					
A	ELECTRONICS N.V.) 17.12.20	2-12					
	& <u>US 6393572 B</u> 1 & EP 109034						
	A & CN 1302397 A						
			<u> </u>				
Further documents are listed in the continuation of Box C. See patent family annex.							
* Special categories of cited documents:  "A" document defining the general state of the art which is not considered to be of particular relevance  "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention							
"E" earlier application or patent but published on or after the inter- national filing date "X" document of particular relevance; the claimed invention cannot							
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special reason (as specified)  "Y" document of particular relevance; the claimed invention can be considered to involve an inventive step when the document of particular relevance; the claimed invention can be considered to involve an inventive step when the document of particular relevance; the claimed invention can be considered to involve an inventive step when the document of particular relevance; the claimed invention can be considered to involve an inventive step when the document of particular relevance; the claimed invention can be considered to involve an inventive step when the document of particular relevance; the claimed invention can be considered to involve an inventive step when the document of particular relevance; the claimed invention can be considered to involve an inventive step when the document of particular relevance; the claimed invention can be considered to involve an inventive step when the document of particular relevance; the claimed invention can be considered to involve an inventive step when the document of particular relevance.							
means combined with one or more other such documents, su combination being obvious to a person skilled in the art							
than the priority date claimed "&" document member of the same patent family							
Date of the a	ctual completion of the international search	Date of mailing of the international sea	arch report				
17.11.2005 18.04.2006							
	ailing address of the ISA/JP	Authorized officer	3V 8718				
•	Japan Patent Office	Osamu Kawabata					
3-4-3, Kasumigaseki, Chiyoda-ku, Tokyo 100-8915, Japan Telephone No. +81-3-3581-1101 Ext. 3358							
orm PCT/ISA/210 (second sheet) (April 2005)							